

Remarks

Claims 1-9, 13-19, and 28-46, and 56-64 are pending in the application. Claim : 10-12, 20-27, and 47-55 were withdrawn from consideration based on an election of species requirement. Claims 1-7, 9-12, 20, 29, 31, 34, 36, 38, 40, 44-50, and 56-60 have been amended. No new matter has been added by virtue of this response. Reconsideration of the application in view of this response is requested.

Allowable Claims

Applicant thanks the examiner for the allowance of claims 35 and 39 if rewritten in independent form including all the limitations of the base claim and any intervening claims. However, applicant believes that claim 1, as amended makes the base claim allowable.

Claim Rejections— 35 U.S.C. § 102(b)

The Examiner rejects claims 1-5, 7, 13, 15, 16, 28, 29, 40 and 56-64 under 35 U.S.C. § 102(b), as being clearly anticipated by Ishii. Claim 1 states:

1. An electronically tuned circuit, comprising a power amplifier coupled to an electronically tunable output network, said power amplifier capable of being operated in a large-signal mode, said output network including an electronically tunable reactive component, a control line, and a control input, said control input available for connection from external to said output network, further wherein said control input is connected to a time varying tuning input signal, wherein electronic tuning of said electronically tunable reactive component includes non-motor operated electronic tuning when said power amplifier is operated in said large-signal mode, wherein said control line extends to said electronically tunable reactive component for providing a control signal derived from said time varying tuning input signal, wherein said control signal varies over more than two values for electronically varying reactance of said electronically tunable reactive component over more than two values.

Independent claims 40 and 56 have been similarly amended to include the limits concerning the time varying input tuning signal.

Applicant would respectfully ask the Examiner to consider that Ishii does not teach or suggest that "said control input is connected to a time varying tuning input signal," or the limit "wherein said control line extends to said electronically tunable reactive component for providing a control signal derived from said time varying

tuning input signal," as provided in claims 1, 40, and 56, as amended. Ishii has comparator 72 having its negative terminal connected to receive a "predetermined threshold signal derived from a terminal 711," as shown in FIGS. 1 and 3 of the Ishii reference and as described in column 4 lines 45-48. A "predetermined threshold signal," as used in Ishii, is a signal having a constant predetermined value which comparator 72 uses to compare to the time varying signal arriving at its positive terminal.

Ishii's purpose of using comparator 72 is to provide a varying output signal at terminal 710 based on the difference between the time varying input at its positive terminal and the constant reference voltage at its negative terminal. Ishii is using this scheme to reduce distortion as described in column 2, lines 12-17. This purpose would be defeated if the reference voltage provided at terminal 711 were permitted to vary with time.

Ishii has terminal 711 connected to comparator 72 that provides an output equal to the difference between the comparator's positive and negative inputs in which the negative input is provided by a constant reference voltage provided at terminal 711. Further invention would be required to provide a use for an output at comparator terminal 710 if the reference threshold voltage provided at terminal 711 were allowed to vary with time. Ishii does not provide this idea and he does not provide the additional invention required. Thus, it would not be obvious to replace the constant voltage provided at terminal 711 with a time varying voltage.

Therefore the rejection of claims 1, 40, and 56, and claims dependent thereon, including claims 2-5, 7, 13, 15, 16, 28, 29, and 57-64 under 35 U.S.C. § 102(b), as being anticipated by Ishii has been traversed.

Claim Rejections-- 35 U.S.C. § 103(a)

The Examiner rejects claims 6, 8, 9, 14, 17-19, 30-34 36-38, and 41-46 under 35 U.S.C. § 103(a), as being unpatentable over Ishii. Applicant would respectfully ask the Examiner to consider that independent claims 1, 40, and 56, include the limit, "said control input is connected to a time varying tuning input signal" and the limit, "wherein said control line extends to said electronically tunable reactive component for providing a control signal derived from said time varying tuning input signal." As discussed above under the 102 rejections Ishii teaches against this limit by providing a comparator that uses a predetermined reference threshold voltage. Providing a time varying tuning input signal would defeat his purpose of having such a predetermined reference threshold voltage. Further invention would be needed to make use of such a time varying input signal. Thus, the rejection of claims 1 and 40, and claims dependent thereon, including claims 6, 8, 9, 14, 17-19, 30-34 36-38, and 41-46, under 35 U.S.C. § 103(a), as being unpatentable over Ishii has been traversed.

It is believed that the claims are in condition for allowance. Therefore, applica it respectfully requests favorable reconsideration. If there are any questions please call applicant's attorney at 802 864-1575.

respectfully submitted,

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